Printing date 02.06.2022

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking
· 1.1 Product identifier
 Trade name: <u>OTTOPUR Turbo Komp. A</u> UFI: 7TG2-R03Q-P00G-4D6Y Product category PC1 Adhesives, sealants Application of the substance / the mixture Assembly foam
• 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Hermann Otto GmbH Krankenhausstraße 14 D-83413 Fridolfing Tel.: 0049/(0)8684/908-0 Fax.: 0049/(0)8684/908-1840
 Further information obtainable from: Tel.: 0049- (0)8684- 908- 2363 (-4300) E-Mail: alois.parzinger@otto-chemie.de 1.4 Emergency telephone number: Tel.: 0049- (0) 89- 192 40 (emergency telephone no.) +44 1865 407333 (Carechem 24)
SECTION 2: Hazards identification
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008
Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. • Hazard pictograms GHS07 • Signal word Warning
• Hazard-determining components of labelling: Reaction products of phosphoryl trichloride and 2-methyloxirane Polyetherpolyol, bromiert 2,2'-oxybisethanol
[.] Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statementsP102Keep out of reach of children.P271Use only outdoors or in a well-ventilated area.
P280Wear protective gloves / eye protection / face protection.P301+P310IF SWALLOWED: Immediately call a POISON CENTER/ doctor.P302+P352IF ON SKIN: Wash with plenty of soap and water.P304+P312IF INHALED: Call a POISON CENTER/doctor if you feel unwell.P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
· 2.3 Other hazards · Results of PBT and vPvB assessment
• PBT: Not applicable. (Contd. on page 2)
GB

according to 1907/2006/EC, Article 31

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(Contd. of page 1)

<2.5%

Trade name: OTTOPUR Turbo Komp. A

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- [•] Dangerous components: CAS: 1244733-77-4 Reaction products of phosphoryl trichloride and 2-50-100% EC number: 807-935-0 methyloxirane • Acute Tox. 4, H302 EC number: 926-564-6 Polyetherpolyol, bromiert <25% Reg.nr.: 01-2119971810-36-xxxx 🗘 Acute Tox. 4, H302 CAS: 111-46-6 2,2'-oxybisethanol <10% EINECS: 203-872-2 (1) Acute Tox. 4, H302 CAS: 25214-63-5 ethylenediamine, propoxylated <5%

(1) Eye Irrit. 2, H319 CAS: 2212-32-0 2-[[2-(dimethylamino)ethyl]methylamino]ethanol EINECS: 218-658-4 Skin Corr. 1C, H314; Eye Dam. 1, H318 • Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures · General information Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. • After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing

Do not induce vomiting; call for medical help immediately. Show container or label.

4.2 Most important symptoms and effects, both acute and delayed

After inhalation: dry throat/neck pain. Cough. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Running of the nose. CONSEQUENTIAL SYMPTOMS MAY OCCURE: Possible inflammation of the respiratory tract. Pulmonary edema possible. Difficulty breathing. After skin contact: Tingles/irritation of the skin. After eye contact: Irritation of the eye tissue. Lachrymal flow.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents Water with full jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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- 5.3 Advice for firefighters
- · Protective equipment:
- Mount respiratory protective device.
- Do not inhale explosion gases or combustion gases.
- · Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Keep away from ignition sources
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to item 13. Allow to solidify. Pick up mechanically.
- 6.4 Reference to other sections See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. see item 8: Personal protective equipment
- *Information about fire and explosion protection:* Keep ignition sources away - Do not smoke. Fumes can combine with air to form an explosive mixture.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage
- **Requirements to be met by storerooms and receptacles:** Observe official regulations on storing packagings with pressurised containers. Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

111-46-6 2,2'-oxybisethanol

- WEL Long-term value: 101 mg/m³, 23 ppm
- DNELs

1244733-77-4 Reaction products of phosphoryl trichloride and 2-methyloxirane

Dermal Worker, systemic (long term) 2.91 mg/kg/Tag (rat)

Inhalative Worker, systemic (long term) 8.2 mg/m3 (rat)

• Additional information: The lists valid during the making were used as basis.

- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

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Trade name: OTTOPUR Turbo Komp. A

• **Respiratory protection:** This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type A1 according to standard EN 14387) is used.

- · Hand protection Protective gloves.
- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Recommended glove types: nitrile rubber

Recommended thickness of the material: >0,4 mm

- · Penetration time of glove material Breakthrough time: 10 30 min
- · Eye/face protection Safety glasses

· Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and che	mical properties
General Information	
Physical state	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
 Melting point/freezing point: 	undetermined
 Boiling point or initial boiling point and 	
boiling range	Not applicable.
 Lower and upper explosion limit 	
Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	101 °C
• Auto-ignition temperature:	385 °C
· Decomposition temperature:	Not determined.
·pH · ·	Not determined.
Viscosity:	Not determined.
Solubility	
· Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/water (log	
value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density:	see technical datasheet
· Relative density	Not determined.
· Vapour density	Not applicable.
· Relative gas density	undetermined
· Particle characteristics	undetermined
	undetermined
• 9.2 Other information	
· Form:	pasty
• Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
· Information with regard to physical hazard	1
classes	•
· Aerosols	Void
· Flammable liquids	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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· 10.2 Chemical stability

• **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications. Avoid strong heating.

· 10.3 Possibility of hazardous reactions No dangerous reactions known

· 10.4 Conditions to avoid No further relevant information available.

- · 10.5 Incompatible materials: Strong oxidizing agents, alkalis, amines, strong acides
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.

LD/LC50 values relevant for classification:

1244733-77-4 Reaction products of phosphoryl trichloride and 2-methyloxirane

Oral LD50 632 mg/kg (rat)

Inhalative LC50/4 h >7 mg/l (rat)

Polyetherpolyol, bromiert

Oral LD50 732 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rab)

111-46-6 2,2'-oxybisethanol

Oral LD50 12,565 mg/kg (rat)

Dermal LD50 11,890 mg/kg (rbt)

25214-63-5 ethylenediamine, propoxylated

Oral LD50 2,001 mg/kg (rat)

Dermal LD50 2,001 mg/kg (rab)

2212-32-0 2-[[2-(dimethylamino)ethyl]methylamino]ethanol

Oral LD50 >2,000 mg/kg (rat)

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

11.2 Information on other hazards

• Endocrine disrupting properties

1244733-77-4 Reaction products of phosphoryl trichloride and 2-methyloxirane: List II

Polyetherpolyol, bromiert: List II

SECTION 12: Ecological information

· 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Observe local by-laws. Already cured material can be disposed of with the domestic or commercial waste. Unconsumed material (fluid, paste-like) is to dispose of as hazardous waste.

· Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport informatio	n
 14.1 UN number or ID number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name 	Void
• ADR, ADN, IMDG, IATA • 14.3 Transport hazard class(es)	Void
ADR, ADN, IMDG, IATA	
· Class · 14.4 Packing group	Void
· ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user 14.7 Maritime transport in bulk according 	Not applicable. to
IMO instruments	Not applicable.
 Transport/Additional information: 	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations

• *Information about limitation of use: Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.*

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Details of international registration status:
 Listed on or in accordance with the following inventories:
 REACH - Europe listed
 DSL - Canada not listed
 NZIOC - New Zealand not listed
 TCSI - Taiwan not listed
 TSCA - USA not listed
 AICS - Australia not listed
 ECL - Korea not listed
 IECSC - China not listed

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Trade name: OTTOPUR Turbo Komp. A

ENCS - Japan not listed

PICCS - Philippines not listed

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. · Department issuing SDS: Tel.: 0049- (0)8684- 908- 2363 · Contact: Tel.: 0049- (0)8684- 908- 2363 (-4300) · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1C: Skin corrosion/irritation - Category 1C Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 * * Data compared to the previous version altered. GF

Printing date 22.06.2022

Version 3 (replaces version 2)

Revision: 21.06.2022

	: Identification of the substance/mixture and of the con	npany/
undertaking		
1.1 Product id	entifier	
	DTTOPUR Turbo Komp. B	
	DQ-S00H-VH99 I ory PC1 Adhesives, sealants	
	f the substance / the mixture Assembly foam	
1.3 Details of	the supplier of the safety data sheet	
Manufacturer/	'Supplier:	
Hermann Otto		
Krankenhausst D-83413 Fridol		
Tel.: 0049/(0)8		
Fax.: 0049/(0)8		
	nation obtainable from:	
	3684-908-2363 (-4300)	
	arzinger@otto-chemie.de y telephone number:	
Tel.: 0049- (0)	89- 192 40 (emergency telephone no.)	
	333 (Carechem 24)	
SECTION 2	: Hazards identification	
CECTION 2.		
	tion of the substance or mixture	
Classification	according to Regulation (EC) No 1272/2008	
healti	h hazard	
		finhalad
	H334 May cause allergy or asthma symptoms or breathing difficulties in	r innaied.
	H351 Suspected of causing cancer.	
SIUIREZ	H373 May cause damage to organs through prolonged or repeated exp	oosure.
\wedge		
$\langle ! \rangle$		
	H332 Harmful if inhaled.	
	H315 Causes skin irritation.	
•	H319 Causes serious eye irritation.	
	H317 May cause an allergic skin reaction.	
STOT SE 3	H335 May cause respiratory irritation.	
2.2 Label elem		
	ording to Regulation (EC) No 1272/2008	
The product is	classified and labelled according to the CLP regulation.	
The product is Hazard pictog	rams GHS07, GHS08	
The product is Hazard pictog Signal word D	anger	
The product is Hazard pictog Signal word D Hazard-detern	arams GHS07, GHS08 Danger nining components of labelling:	
The product is Hazard pictog Signal word D Hazard-detern	arams GHS07, GHS08 Danger nining components of labelling: nediisocyanate,isomeres and homologues	
The product is Hazard pictog Signal word D Hazard-detern diphenylmethal Hazard statern H332 Harmful i	arams GHS07, GHS08 Danger nining components of labelling: nediisocyanate,isomeres and homologues ments if inhaled.	
The product is Hazard pictog Signal word D Hazard-detern diphenylmethat Hazard statem H332 Harmful i H315 Causes s	arams GHS07, GHS08 Danger nining components of labelling: nediisocyanate,isomeres and homologues nents if inhaled. skin irritation.	
The product is Hazard pictog Signal word D Hazard-detern diphenylmethat Hazard statern H332 Harmful i H315 Causes s H319 Causes s	arams GHS07, GHS08 Danger nining components of labelling: nediisocyanate,isomeres and homologues nents if inhaled. skin irritation. serious eye irritation.	
The product is Hazard pictog Signal word D Hazard-detern diphenylmethal Hazard staten H332 Harmful i H315 Causes s H319 Causes s H334 May caus	arams GHS07, GHS08 Danger nining components of labelling: nediisocyanate, isomeres and homologues nents if inhaled. skin irritation. serious eye irritation. serious eye irritation. se allergy or asthma symptoms or breathing difficulties if inhaled.	
The product is Hazard pictog Signal word D Hazard-detern diphenylmethal Hazard staten H332 Harmful i H315 Causes s H319 Causes s H334 May caus H317 May caus	arams GHS07, GHS08 Danger nining components of labelling: nediisocyanate,isomeres and homologues nents if inhaled. skin irritation. serious eye irritation.	

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Trade name: OTTOPUR Turbo Komp. B

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	se damage to organs through prolonged or repeated exposure.	
Precautionary P102	Keep out of reach of children.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves / eye protection / face protection.	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.	
	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove conta	act
	lenses, if present and easy to do. Continue rinsing. Get medical advice/atte	ntic
Additional info		
	ranates. May produce an allergic reaction.	
	gust 2023 adequate training is required before industrial or professional use.	
2.3 Other haza		
	cording to REACH- Annex XVII.56 ady sensitised to diisocyanates may develop allergic reactions when using this	
product.	ady sensitised to disocyariates may develop allergic reactions when using this	
1	ering from asthma, eczema or skin problems should avoid contact, including deri	ma
contact, with thi		na
	should not be used under conditions of poor ventilation unless a protective mask	kw
	gas filter (i.e.type A1 according to standard EN 14387) is used.	
Results of PB1	T and vPvB assessment	
PBT: Not applie		
PBT: Not applie		
PBT: Not applic vPvB: Not appl	olicable.	
PBT: Not applic vPvB: Not appl		
PBT: Not applic vPvB: Not appl	olicable.	
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures	olicable.	
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous col	blicable. : Composition/information on ingredients Mixture of substances listed below with nonhazardous additions. Somponents:	
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures	blicable. : Composition/information on ingredients Mixture of substances listed below with nonhazardous additions. Somponents:	<5
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous col	blicable. : Composition/information on ingredients Mixture of substances listed below with nonhazardous additions. Omponents: -9 diphenylmethanediisocyanate,isomeres and homologues Polymer & Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;	<50
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous col CAS: 9016-87-9	Discable. : Composition/information on ingredients Mixture of substances listed below with nonhazardous additions. Omponents: -9 Olymer Image: Solution of the substances is the substance of substances listed below with nonhazardous additions. Optimized below with nonhazardous	<5(
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous col CAS: 9016-87-9	bilicable. Composition/information on ingredients Mixture of substances listed below with nonhazardous additions. Omponents: -9 Polymer	<50
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous col CAS: 9016-87-9	Discrete Second Stances Mixture of substances listed below with nonhazardous additions. Omponents: -9 Biphenylmethanediisocyanate,isomeres and homologues Originar Image: Second Structure of Substances Output: Second Structure of S	<50
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous col CAS: 9016-87-9	Discrete Sector Discrete Sector S	<50
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous col CAS: 9016-87-9	Discrete : Composition/information on ingredients Mixture of substances listed below with nonhazardous additions. Omponents: -9 'olymer Ø Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Skin Irrit. 2; H319: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1	<50
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous col CAS: 9016-87-9	Discrete Sector Mixture of substances listed below with nonhazardous additions. Omponents: -9 Olymer Ø Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1	<5
PBT: Not applic vPvB: Not appl SECTION 3: 3.2 Mixtures Description: M Dangerous con CAS: 9016-87-9 Reg.nr.: EG: Pc	Dilicable.Composition/information on ingredientsMixture of substances listed below with nonhazardous additions.Omponents:-9diphenylmethanediisocyanate,isomeres and homologues-9Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Set Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Set Colspan="2"Set Colspan="2"Optimiz Colspan="2"Optimiz Colspan="2"Set Colspan="2"Set Colspan="2"Set C	
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Reg.nr.: EG: Polymer

Isocyanate- Prepolymer MDI based Resp. Sens. 1, H334; STOT RE 2, H373; (1) Acute Tox.
 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204

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Version 3 (replaces version 2)

Revision: 21.06.2022

Trade name: OTTOPUR Turbo Komp. B

	(Contd. of	page 2)
CAS: 101-68-8	diphenylmethane-4,4'-di-isocyanante	<50%
EINECS: 202-966-0	& Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;	
Reg.nr.: 01-2119457014-47-xxxx	🚯 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319;	
	Škin Sens. 1, H317; STOT SE 3, H335, EUH204	
	Specific concentration limits: Skin Irrit. 2; H315: $C \ge 5$ %	
	Eye Irrit. 2; H319: C ≥ 5 %	
	Resp. Sens. 1; H334: C ≥ 0.1 %	
	% STOT SE 3; H335: C ≥ 5 %	
CAS: 5873-54-1	diphenylmethane-2,4'-diisocyanate	<10%
EINECS: 227-534-9	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;	<1070
	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319;	
	Škin Sens. 1, H317; STOT SE 3, H335, EUH204	
	Specific concentration limits: Skin Irrit. 2; H315: $C \ge 5$ %	
	Eye Irrit. 2; H319: C ≥ 5 %	
	Resp. Sens. 1; H334: C ≥ 0.1	
	%	
	STOT SE 3; H335: C ≥ 5 %	
CAS: 2536-05-2	diphenylmethane-2,2'-diisocyanate	<1%
EINECS: 219-799-4	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Aquita Tay. 4, H322; Skip kritt 2, H315; Eva kritt 2, H310;	
	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	
	Specific concentration limits: Skin Irrit. 2; H315: $C \ge 5$ %	
	Eye Irrit. 2; H319: C ≥ 5 %	
	Resp. Sens. 1; H334: C ≥ 0.1	
	%	
	STOT SE 3; H335: C ≥ 5 %	
• Additional information For the	wording of the listed hazard phrases refer to section 16.	
SECTION 4: First aid mea	sures	
4.1 Description of first aid mea	sures	
· General information	and by the product	
Immediately remove any clothing	n occur after several hours; therefore medical observation for	. at
least 48 hours after the accident.		αι
· After inhalation		
	ide artificial respiration. Keep patient warm. Consult doctor if	

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- After skin contact Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- · After eye contact
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing
- Do not induce vomiting; call for medical help immediately. Show container or label.
- 4.2 Most important symptoms and effects, both acute and delayed

After inhalation: dry throat/neck pain. Cough. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Running of the nose. CONSEQUENTIAL SYMPTOMS MAY OCCURE: Possible inflammation of the respiratory tract. Pulmonary edema possible. Difficulty breathing. After skin contact: Tingles/irritation of the skin. After eye contact: Irritation of the eye tissue. Lachrymal flow.

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SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- [•] Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx) Hydrogen cyanide (HCN)

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- **Protective equipment:** Mount respiratory protective device.
- Do not inhale explosion gases or combustion gases.
- Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Keep away from ignition sources
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13. Allow to solidify. Pick up mechanically.
- 6.4 Reference to other sections See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. see item 8: Personal protective equipment
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Fumes can combine with air to form an explosive mixture.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- **Requirements to be met by storerooms and receptacles:** Observe official regulations on storing packagings with pressurised containers. Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

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		(Contd. of page
101-68-8	diphenylmethane-4,4'-di-isocyanante	
Long	rt-term value: 0.07 mg/m³ g-term value: 0.02 mg/m³ : as -NCO	
5873-54-1	diphenylmethane-2,4'-diisocyanate	
WEL Show Long	rt-term value: 0.07 mg/m³ g-term value: 0.02 mg/m³ s as -NCO	
2536-05-2	? diphenylmethane-2,2'-diisocyanate	
Long Sen,	rt-term value: 0.07 mg/m³ g-term value: 0.02 mg/m³ · as -NCO i ts with biological limit values:	
	diphenylmethane-4,4'-di-isocyanante	
BMGV 1 µ Me Sa	imol creatinine/mol edium: urine mpling time: At the end of the period od exposure rameter: isocyanate-derived diamine	
5873-54-1	diphenylmethane-2,4'-diisocyanate	
Me Sa	imol creatinine/mol edium: urine mpling time: At the end of the period od exposure rameter: isocyanate-derived diamine	
2536-05-2	? diphenylmethane-2,2'-diisocyanate	
Me Sa Pa	Imol creatinine/mol edium: urine mpling time: At the end of the period od exposure rameter: isocyanate-derived diamine al information: The lists valid during the making were used as bas.	is.
8.2 Expos	sure controls	
Appropriation Individua General p The usual Wash han Avoid con	ate engineering controls No further data; see item 7. I protection measures, such as personal protective equipment protective and hygienic measures precautionary measures are to be adhered to when handling chen ds before breaks and at the end of work. tact with the eyes and skin. bry protection:	
This produ an approp	uct should not be used under conditions of poor ventilation unless a riate gas filter (i.e.type A1 according to standard EN 14387) is used tection Protective gloves.	
The selec of quality Recomme	tion of the suitable gloves does not only depend on the material, bu and varies from manufacturer to manufacturer. Ended glove material: Butyl rubber, BR Ended thickness of the material: >0,4 mm	It also on further man
Penetrati Eye/face	on time of glove material Breakthrough time: 10 - 30 min protection Safety glasses tection: Protective work clothing.	
SECTIO	N 9: Physical and chemical properties	

· 9.1 Information on basic physical and chemical properties

- · General Information
- Physical state
 Colour:

Fluid According to product specification

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· Odour:	(Contd. of page 5) Characteristic
· Melting point/freezing point:	undetermined
· Boiling point or initial boiling point and	undetermined
	208 °C
boiling range · Lower and upper explosion limit	200 C
· Lower:	Not determined.
	Not determined.
Upper:	212 °C
· Flash point:	-
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	Not determined.
Solubility	l hudva lina al
Water:	Hydrolized
Partition coefficient n-octanol/water (log	.
value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	see technical datasheet
Relative density	Not determined.
Vapour density	Not applicable.
Relative gas density	undetermined
· Particle characteristics	undetermined
· 9.2 Other information	
· Form:	pasty
· Ignition temperature:	400 °C
• Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
· Information with regard to physical hazard	
classes	
· Aerosols	Void
· Flammable liquids	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications. Avoid strong heating.
- 10.3 Possibility of hazardous reactions
- Danger of receptacles bursting because of high vapour pressure when heated
- 10.5 Incompatible materials: Strong oxidizing agents, alkalis, amines, strong acides
- 10.6 Hazardous decomposition products:
- Hydrogen chloride (HCl) Hydrogen cyanide (prussic acid)
- see item 5.2

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- · Acute toxicity Harmful if inhaled.
- LD/LC50 values relevant for classification:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral LD50 >10,000 mg/kg (rat)

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Dermal Inhalative		
Inhalative	1050/4	
	e LC50/4	h 0.49 mg/l (rat)
101-68-8	dipheny	/Imethane-4,4'-di-isocyanante
Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rbt)
5873-54-	1 dipher	nylmethane-2,4'-diisocyanate
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	9,400 mg/kg (rbt)
Serious Respirat Sensitive who tend May caus May caus Carcinog STOT-sit STOT-re 11.2 Info	eye dam fory or sl people r l to disea se allergy se an alle genicity ngle exp peated e prmation ne disrug	rritation Causes skin irritation. age/irritation Causes serious eye irritation. kin sensitisation may react strongly to minimal concentrations. We advise asthmatics and people ses of the respiratory tracts against the contact with this product. y or asthma symptoms or breathing difficulties if inhaled. ergic skin reaction. Suspected of causing cancer. sosure May cause respiratory irritation. exposure May cause damage to organs through prolonged or repeated exposure on other hazards pting properties dients is listed.

[•] 12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

- [.] Recommendation
- Observe local by-laws.

Already cured material can be disposed of with the domestic or commercial waste. Unconsumed material (fluid, paste-like) is to dispose of as hazardous waste.

- · Uncleaned packaging:
- · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA

Void

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Void	
Void	
Not applicable.	
Not applicable.	
to	
Not applicable.	
Not dangerous according to the above specifications.	
Void	
	Void Void Void Not applicable. Not applicable. Not applicable. Not dangerous according to the above specifications.

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

• Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations

 Information about limitation of use: Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Details of international registration status:

Listed on or in accordance with the following inventories:

REACH - Europe listed AICS - Australia not listed DSL - Canada not listed ECL - Korea not listed IECSC - China not listed ENCS - Japan not listed NZIOC - New Zealand not listed PICCS - Philippines not listed TCSI - Taiwan not listed TSCA - USA not listed 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

EUH204 Contains isocyanates. May produce an allergic reaction.

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· Department issuing SDS: Tel.: 0049- (0)8684- 908- 2363	
· Contact: Tel.: 0049- (0)8684- 908- 2363 (-4300)	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses	par route (European Agreement Concernin
the International Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemica	ls
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
• * Data compared to the previous version altered.	